CPA MICS	Compliance	Checklist
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Auditor's Name and Date	_
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INFORMATION TECHNOLOGY MICS #1 - #60

Licensee		_ Review Period	·
in compliance with the Minimum		S). This checkli	man" in determining whether a Group I licensee is st is to be used by the CPA in determining whether ion Technology MICS.
Gaming Department:			
Date of Inquiry	Person Interviewed		Position
Manufacturer and Mod	el Type of System in Use		Period in Use

Checklist Completion Notes:

- 1) Unless otherwise instructed, examine a completed document for compliance for those questions referring to records/documentation and recalculating where appropriate. Indicate (by tickmark) whether the procedures were confirmed via examination/review of documentation, through inquiry of licensee personnel or via observation of procedures. Tickmarks used are to be defined at the bottom of each page.
- 2) All "no" answers require referencing and/or comment, and should be cited as regulation violations, unless adequate alternative procedures exist (i.e., approval of alternative procedure granted by the Board Chairman, including computerized applications) or the question requires a "no" answer for acceptability. All "N/A" answers require referencing and/or comment, as to the reason the MICS is not applicable.
- 3) "(#)" refers to the Minimum Internal Control Standards for Information Technology, Version 8.
- 4) The checklist may be completed by an information technology (IT) specialist. Alternatively, the results an IT specialist's work during related audit procedures performed (e.g., Sarbanes-Oxley procedures) may be utilized. The procedures performed through the use of an IT specialist is identified as such by documenting in the checklist.
- 5) The questions on this checklist relating to MICS #'s 1-28 must be addressed for each gaming department application and entertainment application, if applicable. The completed checklist must clearly demonstrate that all applications were addressed and to what specific applications any exceptions noted apply.

Minimum Internal Control Standard Notes

Note 1: Unless otherwise specified, all Information Technology (IT) MICS apply to gaming and entertainment tax related applications, and the underlying databases and operating systems. Entertainment tax related applications include systems used to record admission ticket sales and point-of-sale systems used to record food, beverage, merchandise, admission and

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any other sales subject to live entertainment tax. If a person or entity other than the licensee offers entertainment subject to the entertainment tax on the licensee's premises ("operator"), the entertainment tax related application being used by such operator to report entertainment revenue shall be compliant with the IT MICS.

- Note 2: The IT MICS do not apply when an IT service provider (including an affiliate of an operator) is engaged by a licensee/operator to operate an entertainment tax related application/system (box office system or point-of-sale ["POS"] system) for handling and recording live entertainment taxable admission sales or food, beverage ("F&B") and merchandise sales. To further clarify, the IT MICS do not apply when:
 - The licensee/operator has only installed the user terminals to record live entertainment taxable admission, F&B, merchandise and any other sales and to print the related reports for the recorded sales; and
 - The administrative functions for the computerized box office system or POS are being performed by an IT service provider.
- Note 3: The IT MICS do not apply to the licensee's use of a Board approved pari-mutuel system.
- Note 4: The types of gaming and entertainment tax related applications (including version numbers used) and the procedures and records used to comply with IT MICS #1 #28, as applicable, must be addressed in detail in each applicable section, including the entertainment section, of the written system of internal control pursuant to Regulation 6.090. The Information Technology section of the written system of internal control pursuant to Regulation 6.090 includes the procedures and records used to comply with IT MICS #29 #60, as applicable. Alternatively, pursuant to the *NGC Regulation 6.090 Written System of Internal Control Policies*, the IT section of the written system of internal control may include the records and procedures used to comply with all IT MICS (#1 #60); however, it must address and clearly distinguish the related application by revenue section, as applicable (or designate n/a if not applicable).
- Note 5: If an IT service provider is used for gaming and entertainment tax related applications, including the underlying databases and operating systems, the licensee's written system of internal control pursuant to Regulation 6.090 is to identify the IT service provider and is to delineate the IT functions performed by the IT service provider to comply with IT MICS. The licensee remains ultimately responsible to ensure the proper design and implementation of the procedures required to meet all applicable IT MICS, regardless of who is performing the IT function.
- Note 6: Definitions. The following terminology and respective definitions are used in these MICS unless the context requires otherwise:

Backup system log is an event, a job log or an activity file created by the program or batch process that performs backups of application and data files. These event logs, job logs or activity files usually provide detail on the type of backup performed, success or failure of the operation, and a list of errors.

<u>Critical IT systems and equipment</u> includes all components of systems hardware and software, application software, and database software that individually or in combination are necessary for the stable operation of gaming and entertainment systems. The term does not include user terminals.

<u>Default accounts</u> are user accounts with predefined access levels usually created by default at installation for operating systems, databases, and applications. These accounts tend to be used for training purposes.

<u>Generic user accounts</u> are user accounts that are shared by multiple users (using the same password) to gain access to gaming and entertainment systems and applications. User accounts established by/for and used by manufacturers of the system for vendor support purposes are not considered to be generic accounts.

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<u>Group membership (group profile)</u> is a method of organizing user accounts into a single unit (by job position) whereby access to application functions may be modified at the unit level and the changes take effect for all user accounts assigned to the unit. A user account may be assigned to one or more groups.

<u>Hosting center</u> is an entity unaffiliated with a licensee, registered with the Board pursuant to Regulation 5.230, and hosting on its premises any part(s) of Board regulated hardware or software.

<u>IT personnel</u> are employees of the licensee/operator or an IT service provider who are independent of the gaming and entertainment department; and have been designated to perform the information technology function for the operation of critical IT systems and equipment. The term is not limited to employees within an IT department.

<u>IT service provider</u>, for gaming systems, is a person or an entity engaged by the licensee, and licensed pursuant to Regulation 5.240, to provide management, including system administration, user access administration, support, security, or disaster recovery services for Board regulated hardware or software. For live entertainment, an IT service provider may be engaged by a licensee/operator to administer an entertainment tax related application/system (box office system or POS system) for handling and recording live entertainment taxable admission, F&B, merchandise and any other sales.

<u>Physical and logical segregation of the development and testing from the production environment</u> is separating the development and testing of new software in an environment that is isolated from the regular production (live) network. The development environment is located on a separate server and developers are precluded from having access to the production environment.

<u>Secured repository</u> is a secured environment that is used to store software source code once it has been approved for introduction into the production (live) environment. The repository is secured such that developers cannot modify code once it has been stored. In this way, the repository provides a history of a given software system order by version.

<u>Service accounts</u> are accounts on which automated system functions (services) are dependent to execute. A service account does not correspond to an actual person. These are often built-in accounts that an automated system function (service) uses to access resources they need in order to perform its activities. However, some automated functions may require actual user accounts to perform certain functions, and may be employed using domain accounts to run services.

<u>System administrator</u> is the individual(s) responsible for maintaining the stable operation of the IT environment (including software and hardware infrastructure and application software) and/or has system authorization/access to perform the following administrative function(s):

- Add, change, or delete user accounts and associated user provisioning for database, operating system, and network layers (may also include user access administrator function for an application layer);
- Modify operating system, database, and application security and policy parameters;
- Add, change, or delete system exception logging information; or
- Add, change, or delete permissions to data files and folders.

<u>User access administrator</u> is the individual(s) responsible for and has system authorization/access to add, change, or delete user accounts and associated user provisioning. User provisioning consists of assigning application functions matching the employee's current job responsibilities, unless otherwise authorized by management personnel, to ensure adequate separation of duties.

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Vendor supported system is one type of critical IT syst	ems and equipment: however, where the source code is supported solely by	

<u>Vendor supported system</u> is one type of critical IT systems and equipment; however, where the source code is supported solely by the manufacturer of such system. The manufacturer support of source code does not include performing the function of a "system administrator" or a "user access administrator" when the system is in use by the licensee.

	Questions	Yes	No	N/A	Comments, W/P Reference
1.	Has the licensee's written system of internal control for information technology and for information technology for each gaming department and entertainment, if applicable, been read prior to the completion of this checklist to obtain an understanding of the licensee's information technology procedures?				
Phy	vsical Access and Maintenance Controls				
2.	Are the critical IT systems and equipment for each gaming application (e.g., keno, race and sports, slots, cashless wagering systems, etc.) and each application for entertainment maintained in a secured area (secured area includes a hosting center)? (1) Verify by observation.				
3.	Is the area housing the critical IT systems and equipment for each gaming and entertainment application and other critical IT systems and equipment equipped with the following:				
	 a. Redundant power sources to reduce the risk of data loss in case of interruption of power? (1a) Note: MICS 1(a) does not apply to components in the slot gaming device cabinet. (1a) 				
	b. Adequate security mechanisms, such as traditional key locks, biometrics, combination door locks, or an electronic key card system to prevent unauthorized physical access? (1b)				
	c. The administration of the electronic security systems, if used to secure areas housing gaming and entertainment critical IT systems and equipment, are performed by personnel independent of a gaming or entertainment department? (1c)				
4.	Does the written system of internal control delineate the methods, processes and practices used in meeting the requirements of MICS #1 (a through c)? (1, Note)				

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INFORMATION TECHNOLOGY MICS #1 - #60

Licensee Review Period

	Questions	Yes	No	N/A	Comments, W/P Reference
5.	Is access to areas housing critical IT systems and equipment for gaming and entertainment applications, excluding vendor supported systems, restricted to authorized IT personnel? (2)				
6.	Are gaming and entertainment department personnel, including the manufacturers of the gaming and entertainment computer equipment, only allowed access to the areas housing critical IT systems and equipment for gaming and entertainment applications, excluding vendor supported systems, when authorized by IT personnel and with periodic monitoring by IT personnel during each access? (2)				
7.	Is a record of each access described in the previous standard by non-IT personnel maintained and includes at a minimum: Verify by examination.				
	a. The name of the visitor(s)? (3a)				
	b. Time and date of arrival? (3b)				
	c. Time and date of departure? (3c)				
	d. Reason for visit? (3d)				
	e. The name of IT personnel authorizing such access? (3e)				
8.	Is access to an area housing a vendor supported system for gaming and entertainment applications restricted to authorized IT personnel, or by system manufacturer's personnel when authorized by management and with periodic monitoring during each access by IT personnel or personnel independent of the department using such application? (4)				
9.	Is a record of each access described in the previous standard by the system manufacturer's personnel maintained and does it include at a minimum: Verify by examination.				
	a. The name of the visitor(s)? (5a)				
	b. Time and date of arrival? (5b)				
	c. Time and date of departure? (5c)				
	d. Reason for visit? (5d)				
Sys	stem Parameters				

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Questions	Yes	No	N/A	Comments, W/P Reference
10. Are the computer systems, including gaming and entertainment related application software, logically secured through the use of passwords, biometrics, or other means approved by the Board?(6) Verify by examination.				
11. Do security parameters for passwords, if configurable, meet the following minimum requirements: Verify by examination.				
a. Are the passwords changed at least once every 90 days? (6a)				
 b. Are the passwords at least 8 characters in length and do they contain a combination of at least two of the following criteria: upper case letters, lower case letters, numeric and/or special characters? (6b) 				
c. Are the passwords not allowed to be re-used for a period of 18 months or within the last 10 password changes? (6c)				
d. Are user accounts locked out after 3 failed login attempts? (6d)				
Note 1: MICS #6 does not apply to service accounts and generic user accounts. (6, Note 2)				
Note 2: For MICS #6d, the system may release a locked out account after 30 minutes has elapsed. If an employee assists with releasing a locked out account and is reasonably certain of no unauthorized user access (if such information can be provided by the system and is readily available to the employee assisting in unlocking user account), the elapsed time of 30 minutes is not applicable. (6, Note 3)				
12. Relating to MICS #6d, does the written system of internal control delineate the involvement of an employee assisting in the release of a locked out account? (6, Note 3) Verify by examination.				
13. Does the written system of internal control delineate whether the system is configurable for security parameters for passwords and to what extent the system is configurable in meeting the security parameter requirements? (6, Note 1) Verify by examination.				
14. Is a system event log or series of reports/logs for operating systems (including the database and network layers where applicable) and gaming and entertainment applications, if capable of being generated by the system, configured to track the following events: Verify by examination.				

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	Questions	Yes	No	N/A	Comments, W/P Reference
a.	Note: If configurable by the system, parameters may be set so that only certain attempts are flagged for review (e.g., failed login attempts exceeding a certain number or failed login attempts to a specific address are flagged for review). (Note, 7a)				
b.	Changes to live data files occurring outside of normal program and operating system execution? (7b) Note: Databases and operating systems are to be configured to monitor for and record manual edits and modifications made by users (not automatically by programs or operating systems) to data files and database tables belonging to gaming and/or entertainment systems. (Note, 7b)				
c.	Changes to operating system, database, network, and application policies and parameters? (7c) Note: Policies and parameters include, but are not limited to: • Audit settings (types of events that are monitored and logged) • Password complexity settings (minimum length, maximum age, etc.) • System security levels (AS/400, QSecurity) • Point structure in players club systems. (Note, 7c)				
d.	Audit trail of information changed by administrator accounts? (7d)				
e.	Does information logged, if configurable, include the events related to the functions described in the definitions of "system administrator" and "user access administrator" and do administrator account activity logs, if provided by the system, include: i. Account login name? (7di)				
	ii. Date and time of event? (7dii)				
	iii. Description of event? (7diii)				
	iv. Value before the change? (7div)				
	v. Value after the change? (7dv)				

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Questions	Yes	No	N/A	Comments, W/P Reference
f. Changes to date/time on master time server? (7e)				
15. For MICS #7, does the written system of internal control delineate separately for each layer of the system (application, operating system, database and network, where applicable) whether the system is configurable, and to what extent the system is configurable, in tracking the specified events? (7, Note) Verify by examination. Verify compliance with documented procedures in the written system of internal control.				
16. Are the logs for the events listed in MICS #7(a) through (c) and (e) maintained by a licensee/operator for a minimum of seven days; and are the logs in MICS #7(d) maintained for a minimum of thirty days? (8) Verify by examination.				
17. Are the daily system event logs reviewed at least once a week (for each day of the entire previous week) by either: a) IT personnel, other than the system administrator; b) by an employee outside of the IT department, provided that the employee is independent of the department using the system for which the logs are being reviewed for events listed in MICS #7? (9 and 9, Note 2) Indicate whether "a" or "b" is used. Note: IT personnel who review the logs are independent of the system administration and user access administration functions and do not have system access to perform any administrative functions in the systems for which the logs are being reviewed. (9, Note 2)				
18. Is/(Are) the employee(s) responsible for reviewing the system event log(s) delineated in the written system of internal control? (9)				
19. Is evidence of the system event log review (e.g., log, checklist, notation on reports) either: a) maintained for a minimum of 90 days and does it include the date, time, name of the individual performing the review, the exceptions noted and any follow-up of the noted exception; or b) if an automated tool that polls the event logs for all gaming and entertainment related servers and provides the reviewer with notification of the above is used, is the notification maintained for 90 days, provided that the date, time, name of the individual performing the review of the exceptions				

Verified per representation. Verified per observation/examination.

noted, and any follow-up of the noted exception are documented in the notification or in a separate document that is maintained? (9 and 9, Note 1) Indicate whether "a" or "b" is used.

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Questions	Yes	No	N/A	Comments, W/P Reference
20. If an IT service provider maintains and administers gaming and				
entertainment related systems: a) is the review of the logs for				
events listed in MICS #7 performed by IT personnel who are				
employees of the licensee/operator; or b) if an automated tool is				
used as discussed in Note 1 for MICS #9, is the notification				
provided to IT personnel employed by the licensee/operator? (9,				
Note 3) Indicate whether "a" or "b" is used.				
21. Are exception reports (for application level only), if capable of				
being produced by the system, (e.g., changes to system				
parameters, corrections, overrides, voids, wagering account				
adjustments, etc.) for each gaming application and entertainment				
tax related application maintained? (10) Verify by				
examination.				
22. Do the exception reports, if applicable, mentioned in the previous				
question include, at a minimum, the following: Verify by				
examination.				
a. Date and time of alteration? (10a)				
b. Identification of user that performed the alteration?				
(10b)				
c. Data or parameter altered? (10c)				
1 D. (10.1)				
d. Data or parameter value prior to alteration? (10d)				
e. Data or parameter value after alteration? (10e)				
23. Does the written system of internal control indicate the system's				
capability of producing an exception report (includes listing of				
specific report[s]) and to what extent this report provides				
specified information? (10, Note) Verify by examination.				
User Accounts				
<u> </u>				
Note: MICS #11 through #17 in this section apply to an application				
level, unless otherwise specified. (Note before 11)				
24. Do management personnel, the IT service provider, or persons				
independent of the department being controlled, establish, or				
review and approve, user accounts for new employees? (11)				

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Questions	Yes	No	N/A	Comments, W/P Reference
25. Does provisioning for user accounts consist of assigning application functions matching the employee's current job responsibilities, unless otherwise authorized by management personnel, to ensure adequate separation of duties? (11)				
26. Is provisioning of user accounts for employees who transfer to a new department performed, or reviewed and approved by management personnel, or persons independent of the department being controlled? (12)				
27. For employees who transfer to a new department, is any previously assigned application function access for the employee's user account changed to inactive (disabled) prior to the employee accessing their new user account for their role or position in the new department? (12)				
28. Do user access listings include, if the system is capable of providing such information, the following at a minimum: Verify by examination.				
a. Employee name and title or position? (13a)				
b. User login name? (13b)				
c. Full list and description of application functions that each group/user account may execute? (13c)				
Note: The list for MICS #13c may be available in a separate				

Verified per representation. Verified per observation/examination.

used in the system? (13h)

Verify by examination.

report if the menu functions are easily referenced between the user access listing report and the menu function report.

Date and time the account was created? (13d)

Date and time account disabled/deactivated? (13g)

Group membership of user account, if group membership is

29. Does the written system of internal control indicate the system's capability of producing a user access listing and to what extent the system's listing provides specified information? (13, Note 1)

Date and time of last login? (13e)

Date of last password change? (13f)

(13c, Note)

d.

e.

g.

h.

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Note: The user access listing is not required for entertainment tax related applications. (13, Note 2) 30. When multiple user accounts for one employee per application are used: Verify by examination. a. Can only one user account be active (enabled) at a time if the concurrent use of the multiple accounts by the employee could create a segregation of duties deficiency resulting in noncompliance with one or more MICS? (14) b. Does the user account have a unique prefix/suffix to easily identify the users with multiple user accounts within one application? (14) 31. When an employee is known to be no longer employed (e.g., voluntary or involuntary termination of employment): a. Is the user access administrator and/or system administrator and/or system administrator change the status of the employee's user account from active to inactive (disabled) status within a reasonable period of time, established by management? (15) c. Does the written system of internal control delineate the process and reasonable time period in notifying the user access administrator and/or system administrator and the reasonable period of time allowed for the user access administrator and/or system administrator and/or system administrator and the period of time allowed for the user access administrator and/or system adm					
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a. Can only one user account be active (enabled) at a time if the concurrent use of the multiple accounts by the employee could create a segregation of duties deficiency resulting in noncompliance with one or more MICS? (14) b. Does the user account have a unique prefix/suffix to easily identify the users with multiple user accounts within one application? (14) 31. When an employee is known to be no longer employed (e.g., voluntary or involuntary termination of employment): a. Is the user access administrator and/or system administrator, as applicable, notified within a reasonable period of time, established by management? (15) b. Upon notification, does the user access administrator and/or system administrator caccount from active to inactive (disabled) status within a reasonable period of time, established by management? (15) c. Does the written system of internal control delineate the process and reasonable time period in notifying the user access administrator and/or system administrator and the reasonable period of time allowed for the user access administrator and/or system administrator to update the terminated employee's user account and does it address the procedures established in preventing the employee from having unauthorized access to a user terminal? (15) Verify by examination. Verify compliance with documented procedures in the written system of internal control. Note: For MICS #15, the reasonable period of time in notifying the user access administrator and/or system administrator and/or system administrator and/or system administrator and/or system administrator and the period of time allowed for the user access administrator and the period of time allowed for the user access and administrator and the period of time allowed for the user access and administrator and/or system administrator and/or					
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CPA MICS Compliance Checklist

Auditor's Name and Date	_

INFORMATION TECHNOLOGY MICS #1 - #60

Review Period _____

Questions	Yes	No	N/A	Comments, W/P Reference
32. When an employee who has a user account with remote access capability is known to be no longer employed (e.g., voluntary or involuntary termination of employment):				
 a. Is the user access administrator and/or system administrator, as applicable, notified as soon as possible? (16) 				
b. Upon notification, does the user access administrator and/or system administrator change the status of an employee's user account with remote access capability from active to inactive (disabled) status? (16)				
c. Does the written system of internal control delineate the process in notifying the user access administrator and/or system administrator as soon as possible for immediately updating the terminated employee's user account with remote access capability and does it address the procedures established in preventing the employee from having unauthorized remote access? (16) Verify by examination. Verify compliance with documented procedures in the written system of internal control.				
Note: For MICS #16, during the period of time when the employee is no longer employed and until the user account has been disabled, it is assumed that it is relatively unlikely the employee will have unauthorized remote access to the system during that time period. (16, Note)				
33. Are user access listings for gaming applications at the application layer reviewed quarterly by personnel independent of the authorization and user provisioning processes? (17)				
34. Does the review mentioned in the previous question consist of examining a sample of at least 10% (with a maximum of 25) of the users included in the listing? (17)				
35. Relating to the previous question, does the reviewer maintain adequate evidence to support the review process, which includes				

Verified per representation. Verified per observation/examination.

the user access listing was reviewed? (17)

reviewed to determine whether:

the identified accounts reviewed, documentation of the results of the review, and e-mails or signatures and dates indicating when

36. Are each of the user accounts selected pursuant to MICS #17

CPA MICS Compliance Checklist

Auditor's Name and Date	

INFORMATION TECHNOLOGY MICS #1 - #60

Licensee	Rev	riew Perio	d		
	Questions	Yes	No	N/A	Comments, W/P Reference
a					,
t	o. The assigned functions provide an adequate segregation of duties? (17b)				
c	c. Terminated employees user accounts have been changed to inactive (disabled) status within the time period determined by management and delineated in the written system of internal control as required by MICS #15 and MICS#16? (17c) Verify by examination.				
s i c i c	Note: Verification of the time period is not required if the system is not capable of providing a user access listing indicating the date and time of an account being disabled/deactivated. The written system of internal control is to delineate this reason for not performing a verification of time period. (17c, Note) Indicate if the verification is not performed for this reason and whether the written system delineates this.				
Ċ	I. Passwords have been changed within the last 90 days? (17d)				
a b	Note 1: The review for password changes within 90 days applies regardless of whether the system parameter has been configured to have the password changed at least once every 90 days as required by MICS #6a. (17d, Note 1)				
n d i i F I d	Note 2: MICS #17(d) does not apply when the system is not capable of providing a user access listing indicating the late of the last password change. The written system of internal control is to delineate this reason for not performing a review for password changes. (17d, Note 2) indicate if the review for password changes within 90 lays is not performed for this reason and whether the written system delineates this.				

CPA MICS Compliance Checklist

Auditor's Name and Date

INFORMATION TECHNOLOGY MICS #1 - #60

Licensee Review Period

0'	17	N.T.	NT/A	C , W/DD C
Questions e. There are no inappropriate assigned functions for group	Yes	No	N/A	Comments, W/P Reference
e. There are no inappropriate assigned functions for group membership, if group membership is used in the				
system? (17e)				
, , ,				
Note 1: MICS 17(e) applies to a review of the assigned				
functions for the selected user account with group				
membership. (17, Note 1)				
Note 1: The review required by MICS #17 does not apply to user				
access listings for any entertainment tax related applications.				
(17, Note 2)				
Note 2: The MICS #17 review applies to user access listings for				
computerized gaming systems with the following capabilities:				
 Generates reports identifying gaming revenues; 				
Generates detailed records of all markers, IOU's, returned				
checks, hold checks, or other similar credit instruments;				
Generates statistical gaming records required by the MICS; or				
• Generates any other records required by either the MICS or by the licensee's system of internal control. (17, Note 3)				
the needsee's system of internal control. (17, Note 3)				
Generic User Accounts				
37. Are generic user accounts at the operating system level, if used,				
configured such that either: (18)				
a. The user is automatically brought to the application logon screen immediately upon logging into the operating system,				
and the user is logged out of the operating system,				
automatically upon exiting the application? (18a), or				
b. The user is only granted access to the assigned application(s) for the user's current job responsibilities, and the user is				
precluded from executing unassigned applications or				
functions from the terminal desktop and is precluded from				
interactive access to the operating system through the proper				
security configurations? (18b)				
38. Does the written system of internal control delineate the method				
used to secure generic accounts? (18, Note) Verify by				
examination. Verify compliance with documented				

Verified per representation. Verified per observation/examination.

procedures in the written system of internal control.

CPA MICS Compliance Checklist

Auditor's Name and Date	

INFORMATION TECHNOLOGY MICS #1 - #60

Review Period _____

			1 37/4	G WADD
Questions	Yes	No	N/A	Comments, W/P Reference
39. Are generic user accounts at the application level prohibited unless user access is restricted to inquiry only functions or is				
specifically allowed in other sections of the MICS? (19)				
Service and Default Accounts				
40. If service accounts are used:				
a. Are they utilized in a manner to prevent unauthorized and				
inappropriate usage to gain logical access to an application				
and the underlying databases and operating systems? (20)				
b. Is service account log-in and password information restricted				
to a limited number of authorized employees? (20)				
c. Is the employee responsible for the documentation indicating				
the method used to prevent unauthorized and inappropriate				
usage of these service accounts (available upon request by				
authorized internal and external auditors and by Board				
personnel) delineated in the written system of internal control. (20) Verify by reviewing the documentation				
indicating the process. Additionally, confirm compliance				
with documented procedures.				
-				
Note: For MICS #20 the suggested methods to accomplish compliance include: (1) Service accounts are configured such that the				
account cannot be used to directly log in to the console of a server or				
workstation; (2) Service account passwords are to be changed at least				
once every 90 days, and immediately upon termination of system				
administrators. (20, Note)				
41. For user accounts created by default (default accounts) upon				
installation of any operating system, database or application: a. Are they configured to minimize the possibility that				
these accounts may be utilized to gain unauthorized				
access to system resources and data? (21)				
b. Is the employee responsible for the documentation				
b. Is the employee responsible for the documentation indicating the procedures implemented to restrict access				
through the use of default accounts (available upon				
request by authorized internal and external auditors and				
by Board personnel) delineated in the written system of				
internal control? (21) Verify by reviewing the				
documentation indicating the process. Additionally,				
confirm compliance with documented procedures.	1			

Verified per representation. Verified per observation/examination.

CPA MICS Compliance Checklist

Auditor's Name and Date	

INFORMATION TECHNOLOGY MICS #1 - #60

Licensee Review Period				
Questions	Yes	No	N/A	Comments, W/P Reference
42. Are any other default accounts that are not administrator, service or guest accounts disabled unless they are necessary for proper operation of the system? (22)		1,0	11/12	
43. If the accounts mentioned in the previous question must remain enabled, are the passwords changed at least once every 90 days (22)				
Administrative Access Note: Administrative access means access that would allow a user t • Add, change, or delete user accounts and associated user provisioning for database, operating system and network layers • Modify operating system, database, and application security and policy parameters • Add, change, or delete system exception logging information. • Add, change, or delete permissions to data files and folders (Note before 23)	y on			
44. Is access to administer the network, operating system, applications, and database security and system parameters eithe	r:			
a. Limited to IT personnel under the supervision of supervisory and/or management employees of the licensee's/operator's IT department? (23), or				
b. If there is no IT department, is it limited to supervisory or management personnel independent of the department using such system and/or application? (23)				
45. Daily, does an individual independent of the slot department review the requirements of a system based game and a system supported game to ensure that the administrator level access by system administrators is achieved in accordance with the requirements listed at Regulation 14, Technical Standards 1.084(4) and 1.086(4)? (24)				
Note 1: MICS #24 requires a review to confirm that the system administrator level access is not achieved without the presence and participation of at least two individuals. The requirements listed at Regulation 14, Technical Standards 1.084(4) and 1.086(4) include split passwords, dual keys or any other suitable method approved by the chairman. (24, Note)				
<u>Backups</u>				

Verified per representation. Verified per observation/examination.

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Licensee Review Period					
Questions	Yes	No	N/A	Comments, W/P Reference	
46. Are daily backup and recovery procedures in place? (25)					
47. Relating to the previous question, do the procedures in place applicable, include:	e, if				
a. Application data? (25a)					
Note: This standard only applies if data files have been updated. (25a, Note)	n				
 b. Application executable files, unless such files can be reinstalled? (25b) 					
c. Database contents and transaction logs? (25c)					
48. Upon completion of the backup process, is the backup medi immediately transferred to a location separate from the local housing the servers and data being backed up (for temporary permanent storage), is the storage location secured to prevenuauthorized access and does it provide adequate protection prevent the permanent loss of any data? (26) Verify by observation.	tion y and nt				
Note 1: Backup data files and programs can be maintained secured manner in another building on the premises that is physically separated from the building where the system's hardware and software are located. They may also be stored the same building as the hardware/software, but not in the simmediate area, as long as they are secured in a fireproof sa some other manner that will ensure the safety of the files an programs in the event of a fire or other disaster. (26, Note 2)	d in ame ife or d				
Note 2: MICS #26 does not apply to backup data files for computerized keno and bingo systems except for inter-casir linked keno games or keno games that accept multi-race ket wagers that will not be completed by the end of the next garday. (26, Note 2)	no				
49. Are backup system logs, if provided by the system, review daily by IT personnel or individuals authorized by IT personnel to ensure that backup jobs execute correctly and on schedulare the backup system logs maintained for the most recent days? (27)	onnel ile and				

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	3.7	l N	NT/A	C WDD C
Questions	Yes	No	N/A	Comments, W/P Reference
50. Is the employee(s) responsible for reviewing the backup logs delineated in the written system of internal control? (27) Verify				
by examination. Verify compliance with documented				
procedures in the written system of internal control.				
procedures in the written system of internal control.				
51. Is the employee responsible for the documentation indicating the				
procedures implemented for the backup processes and restoring				
data and application files (available upon request by authorized				
internal and external auditors and by Board personnel) delineated				
in the written system of internal control? (28) Verify by				
reviewing the documentation indicating the process.				
Additionally, confirm compliance with documented				
procedures.				
Note: While not mandatory, licensees are encouraged to test				
recovery procedures at least annually. (28, Note)				
recovery procedures at roast annually. (20, 140te)				
Recordkeeping				
52. Is a list of all Board regulated systems (hardware and software)				
maintained which includes the system name and version				
identifier (indicating period of time each version was in use),				
related operating system and database software and hardware				
(including version identification and period of time each version				
was in use)? (29) Verify by examination.				
53. Is documentation for all listed in-use versions of applications,				
databases, network hardware, and operating systems maintained,				
including descriptions of both, hardware and software, operator				
manuals, etc.? (29) Verify by examination.				
54. Do system administrators maintain a current list of all enabled				
generic, system, and default accounts? (30) Verify by				
examination.				
55. If the operating system and/or database support more than a				
single gaming or entertainment application, does the list				
mentioned in the previous question include all system, generic or	1			
default accounts enabled on that operating system or database,				
regardless of the system they pertain to? (30, Note) Verify by				

Verified per representation.
Verified per observation/examination.

56. Does the documentation mentioned in the preceding question include, at a minimum, the following: **Verify by examination.**

examination.

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	Questions	Yes	No	N/A	Comments, W/P Reference		
a. Name of system (i.e. database)? (30a)	, the application, operating system, or				,		
b. The user account log	in name? (30b)						
c. A description of the	account's purpose? (30c)						
d. A record (or reference the account to remain	te to a record) of the authorization for a enabled? (30d)						
in the written system of in examination. Verify con	nsible for maintaining the list delineated internal control? Verify by mpliance with documented on system of internal control. (30)						
(the employee[s] delineat control pursuant to Regul	is used, does the system administrator ed in the written system of internal ation 6.090) maintain an additional list system administrative permission which						
a. Name of the system (31a)	administered by an IT service provider?						
b. The user account(s) provider? (31b)	og-in name(s) used by an IT service						
an IT service provider is licensee's/operator's IT r	red by MICS #30 and by MICS #31 (if used) reviewed by the nanagement in addition to the system see every six months? (32)						
60. Is the list required by MI unauthorized or outdated	CS #30 reviewed to identify any accounts? (32)						
	CS #31 reviewed to ensure that the atte for each user's position? (32)						
employee(s) responsible	of internal control delineate the for the review? Verify by examination documented procedures in the	•					

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Questions	Yes	No	N/A	Comments, W/P Reference
63. Are user access listings (requirements listed in MICS #13) for all				
gaming systems retained for at least one day of each month for				
the most recent 5 years? (33) Verify by examination.				
Note 1: The lists may be archived electronically if the listing is written to unalterable media (secured to preclude alteration). (33)				
Note 2 : If available, the list of users and user access for any				
given system is in electronic format that can be analyzed by				
analytical tools (i.e., spreadsheet or database) that may be				
employed by Board agents. (33)				
Note 3: User access listings do not need to be retained for any				
entertainment tax related applications. (33, Note)				
64. Does the IT department maintain current documentation with				
respect to the network topology (e.g., flowchart/diagram),				
deployment of servers housing applications and databases, and				
inventory of software and hardware deployed (available upon				
request by authorized internal and external auditors and by Board				
personnel), and is the employee responsible for maintaining the				
current documentation on the network topology delineated in the				
written system of internal control? (34) Verify by examination.				
Electronic Storage of Documentation				
65. If documents are scanned or directly stored to unalterable media				
(secured to preclude alteration), are the following conditions met:				
a. Does the storage media contain the exact duplicate of the				
original document? (35a)				
1 4 11 1 4 4 1 2 4				
b. Are all documents stored maintained with a detailed index				
containing the casino department and date in accordance				
with Regulation 6.040(1) and is the index available upon				

Verified per representation. Verified per observation/examination.

used for audit purposes? (35d)

Upon request by Board agents, is hardware (terminal, printer, etc.) provided in order to perform audit procedures? (35c)

Do controls exist to ensure the accurate reproduction of records, up to and including the printing of stored documents

At least quarterly, do accounting/audit personnel review a sample of the documents on the storage media to ensure the clarity and completeness of the stored documents? (35e)

Board request? (35b)

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Questions 66. If source documents and summary reports are stored on alterable storage media, is the media not relied upon for the performance of any audit procedures and are the original documents and summary reports retained? (36)	Yes	No	N/A	Comments, W/P Reference
Creation of Wagering Instruments Database				
Note: MICS #37-40 apply when creating a database of wagering instruments that will be accepted by a cashless wagering system or when creating wagering instruments within the existing cashless wagering database (creating wagering instruments to distribute to patrons for play at a slot machine). These MICS will also apply if a kiosk is used to generate promotional wagering instruments or coupons that will be accepted by a slot machine. These standards do not apply to wagering instruments that are created as a result of slot machine play. (Note before 37)				
67. Does an individual independent of the gaming area perform the database creation and, if applicable, the creation of wagering instruments to be accepted in the cashless wagering system? (37)				
68. Is a record maintained detailing the database creation and the wagering instruments to be accepted by the cashless wagering system, and does the record include evidence of user acceptance, date in service, and personnel involved? (38) Verify by examination.				
69. Monthly, is the wagering instrument database reviewed and tested by personnel of the applicable gaming area and accounting/audit personnel for any improprieties? (39)				
70. Are the procedures used and subsequent results relating to the wagering instruments database review and test documented and maintained? (40) Verify by examination.				
Network Security and Data Protection				
71. If guest networks are offered (such as, networks that provide internet access for patrons, hotel guests, or vendors), is adequate logical segregation provided of the guest network from the network used to serve access to gaming and entertainment tax related applications and devices? (41)				
72. Is traffic on guest networks non-routable to the network serving gaming and entertainment tax related applications and devices? (41)				

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Questions	Yes	No	N/A	Comments, W/P Reference
73. Are production networks serving gaming/entertainment systems secured from outside traffic (e.g., firewall and routers) such that the systems are configured to detect and report security related events? (42)				
Note: A suggested method in complying with this standard is to configure the system to log unauthorized logins, failed login attempts, and other security related events; and block all unused ports and any in-bound connections originating from outside the network. (42, Note)				
74. Relating to the previous question, is the employee responsible for the documentation indicating the procedures for detecting and reporting security related events (available upon request by authorized internal and external auditors and by Board personnel) delineated in the written system of internal control? (42) Verify by examination.				
75. Are network shared drives containing application files and data for all Board regulated software, if used, secured such that only authorized personnel may gain access? (43)				
76. Are server consoles, and unattended user terminals in gaming areas, if configurable, configured to automatically secure themselves after a configurable period of inactivity elapses? (44)				

Verified per representation. Verified per observation/examination.

77. Relating to the previous question, is the amount of time

Verify by examination.

terminated? (45)

gain access to these devices? (45)

determined by management documented in the written system of internal control and are users required to supply proper login credentials to regain access to the terminal or console? (44)

78. Are login accounts and passwords required to administer network equipment secured such that only authorized IT personnel may

79. Do the passwords for the accounts mentioned in the preceding question meet the security parameters of IT MICS #6, and are those accounts immediately disabled when IT personnel are

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Questions	Yes	No	N/A	Comments, W/P Reference
Note: "Personally identifiable information" means any information about an individual maintained by a licensee including (1) any information that can be used to distinguish or trace an individual's identity, such as name, social security number, date and place of birth, mother's maiden name, or biometric records; and (2) any other information that is linked or linkable to an individual, such as medical, educational, financial, and employment information. (46, Note 1)				
80. Is documentation maintained delineating the policies and procedures established to protect a patron's personally identifiable information, including, but not limited to:				
 a. The designation and identification of one or more management officials having primary responsibility for the design, implementation and ongoing evaluation of such procedures and controls? (46a) 				
b. The procedures to be used to determine the nature and scope of all personally identifiable information collected, the locations in which such information is stored, and the devices or media on which such information may be recorded for purposes of storage or transfer? (46b)				
c. The procedures to be used to prohibit access to a patron's unique personal identification number ("password")? (46c)				
d. The procedures to be used to reasonably ensure only a patron will be changing its password as the holder of an account? (46d)				
e. The policies to be utilized to protect personally identifiable information from unauthorized access by employees, business partners, and persons unaffiliated with the company? (46e)				
f. Notification to a patron of privacy policies? (46f)				
g. Procedures to be used in the event the operator determines that a breach of data security has occurred, including required notification to the board's enforcement division? (46g)				
h. Provision for compliance with all local, state and federal laws concerning privacy and security of personally identifiable information? (46h)				

Verified per representation. Verified per observation/examination.

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Questions	Yes	No	N/A	Comments, W/P Reference
81. Is the employee responsible for this documentation required by				
this standard delineated in the written system of internal control				
and is this documentation made available upon request by				
authorized internal and external auditors and by Board personnel	•			
(46, Note 2) Verify by examination. Additionally, confirm compliance with documented procedures.				
compnance with documented procedures.				
Remote Access				
82. For each computerized gaming or entertainment tax related				
application that can be accessed remotely for purposes of				
obtaining vendor support, does the written system of internal				
control specifically address remote access procedures? (47)				
Verify by examination.				
83. Do the written procedures mentioned in the previous question				
include, at a minimum, the following: Verify compliance with				
documented procedures in the written system of internal				
control.				
a. The type of gaming or entertainment tax related application,				
vendor's name and business address (business address only				
for cashless wagering systems) and version number, if				
applicable? (47a)				
b. For a system based game and a system supported game, the				
method and procedures used in meeting the requirements of				
Regulation 14, Technical Standard 1.066? (47b)				
c. The method and procedures used in establishing and using				
c. The method and procedures used in establishing and using passwords to allow authorized vendor personnel to access				
the system through remote access? (47c)				
d. The personnel involved and procedures performed to enable				
the method of establishing remote access connection to the				
system when the vendor requires access to the system				
through remote access? (47d) Indicate the personnel				
involved and procedures performed to enable the				
physical connection to the system for remote access.				
e. The personnel involved and procedures performed to ensure				
the method of establishing remote access connection is				
disabled when the remote access is not in use? (47e)				
Perform a physical inspection of the equipment to				
determine that the remote access is disabled when not in				

Verified per representation. Verified per observation/examination.

use.

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Questions	Yes	No	N/A	Comments, W/P Reference
f. Any additional requirements relating to remote access published by the Board? (47f)				
84. In the event of remote access, is a complete record of the access prepared that includes the following: Verify by examination.				
a. Name or identifier of the licensee's/operator's employee authorizing access? (48a)				
b. Name of manufacturer/vendor? (48b)				
c. Name or identifier of manufacturer's/vendor's employee accessing system? (48c)				
d. Name of user account(s) through which the vendor's employee accessed the system? (46d)				
e. Name of the system(s) accessed by the vendor? (46e)				
f. Adequate and detailed description of work performed (including the old and new version numbers of any software that was modified)? (46f)				
g. Date, time and duration of access? (46g)				
85. Do user accounts used by vendors remain disabled on all operating systems, databases, network devices, and applications until needed by such vendor and subsequent to an authorized use by a vendor is the account returned to a disabled state? (49)				
86. Is remote access for all vendors enabled only when approved by authorized IT personnel? (50)				
87. If remote access to the production network (live network) is available, and allows access to gaming and entertainment tax related applications, is such access logged automatically by the device or software where it is established, if the system is capable of automatically logging such access? (51)				
88. If automated logging is available as described in the previous question, does the log indicate the date/time of such access and the identification of the individual/user account performing				

Verified per representation. Verified per observation/examination.

access? (51) Verify by examination.

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Questions	Yes	No	N/A	Comments, W/P Reference
89. Does the written system of internal control delineate whether				
automated logging is performed and the device or software				
performing this function? (51, Note) Verify be examination. Additionally, confirm compliance with documented				
procedures.				
-				
<u>Changes to Production Environment</u>				
90. Is documentation maintained delineating a comprehensive and				
robust change control process to prevent any unauthorized				
changes being incorporated into the production environment?				
(52) Verify by examination.				
91. Is the employee responsible for the documentation of the change				
control process (available upon request by authorized internal and				
external auditors and by Board personnel) delineated in the				
written system of internal control? (52) Verify by examination.				
92. Does the documented process mentioned in the previous question				
include, at a minimum: Verify compliance with documented				
procedures in the written system of internal control.				
a. Proposed changes to the production environment are				
evaluated sufficiently by management personnel prior to				
implementation? (52a)				
b. Proposed changes are properly and sufficiently tested prior				
to implementation into the production environment? (52b)				
c. A strategy of reverting back to the last implementation is				
used (rollback plan) if the install is unsuccessful and the				
rollback plan is tested prior to implementation to the				
production environment? (52c)				
d. Sufficient documentation is maintained evidencing				
management approvals, testing procedures and results,				
rollback plans, and any issues/resolutions encountered during				
implementation? (52d)				
Note: The above process includes ALL changes to the production				
environment (operating system, network, databases, and applications)				
that relate to critical IT systems, and gaming and entertainment				
applications (52, Note)				

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Questions	Yes	No	N/A	Comments, W/P Reference
Information Technology Department				
Note: If a separate IT department is maintained or if there are inhouse developed systems, MICS #53 through #56 are applicable. The IT department may consist of the licensee's/operator's IT personnel or an IT service provider. (Note before 53)				
93. Is the IT department independent of all gaming departments (e.g., cage, pit, count rooms, etc.) and operational departments subject to live entertainment tax? (53) Verify by observation.				
94. Are IT personnel precluded access to wagering instruments and gaming related forms (e.g., slot jackpot forms, table games fill/credit forms, etc.)? (54)				
In-House Software Development				
95. If source code for gaming and entertainment tax related software is developed or modified internally, is a process adopted to manage the development and is the employee responsible for the documentation indicating the process in managing the development or modification of source code (available upon request by authorized internal and external auditors and by Board personnel) delineated in the written system of internal control? (55) Verify by examination.				
96. Does the process mentioned in the previous question address, at a minimum, the following: Verify by reviewing the documentation indicating the process. Additionally, confirm compliance with documented procedures.				
a. That requests for new programs or program changes are reviewed by the IT supervisory personnel and the approvals to begin work on the program are documented? (55a)				
b. That a written plan of implementation for new and modified programs is maintained and includes, at a minimum:				
 The date the program is to be placed into service The nature of the change (if applicable) A description of the procedures required in order to bring the new or modified program into service (conversion or input of data, installation procedures, etc.) An indication of who is to perform all such procedures? (55b) 				

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Questions	Yes	No	N/A	Comments, W/P Reference
c. That software development and testing procedures be sufficiently documented? (55c)	Tes	140	IVA	Comments, W/I Reference
d. Documentation of approvals, development, testing, results of testing, and implementation into production? Is the documentation maintained and does it include a record of the final program or program changes, including evidence of user acceptance, date in service, programmer, and reason for changes? (55d)				
e. Physical and logical segregation of the development and testing from the production environments? (55e)				
 f. Adequate segregation of duties (i.e., those who develop/test code do not have access to introduce new or modified code into the production environment)? (55f) 				
Note: For MICS #55(e) and (f) a system administrator is precluded from developing/testing code which will be introduced into the production environment. (55f , Note)				
g. Secured repositories for maintaining code history? (55g)				
h. End-user documentation (guides and manuals)? (55h)				
97. Is a copy of the associated equipment reporting form submitted to the Board pursuant to Regulation 14 for each new program or program change and a record that such software was approved for use maintained? (56)				
Purchased Software Programs				
Note: IT MICS #57 applies when IT personnel perform in-house modifications to a purchased software program. (Note before 57)				
98. Are new programs and program changes for purchased systems documented as follows: Verify by examination.				
 a. Is documentation maintained that includes the following at a minimum: • The date the program was placed into service • The nature of the change (if applicable) • A description of the procedures required in order to bring the new or modified program into service (conversion or input of data, installation procedures, etc.) • An indication of who performed all such procedures? 				

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b. Is a copy of the associated equipment reporting form submitted to the Board pursuant to Regulation 14 for each new program or program change and a record that such software was approved for use maintained? (57b)				
c. Is testing of new and modified programs performed (by the licensee or system manufacturer) and documented prior to full implementation? (57c)				
Data Access Control				
Note: MICS #58 through #60 apply to any Board approved gaming or entertainment tax related application (including systems utilizing promotional accounts and/or wagering accounts). (Note before 58)				
99. Are procedures in place to ensure that no alteration is permitted of any system stored transaction history or event log information that was properly communicated from the game, gaming device or generated by the application? (58)				
100. Are procedures in place to ensure that all critical system stored data are non-alterable other than through normal operation processes? (59)				
Note 1: Critical system data includes data relating to, but not limited to, wagering instruments' validation numbers and dollar value, promotional and wagering accounts' personal identification numbers and account balances, and unpaid winning tickets information. (59)				
Note 2: Methods may include, but are not limited to, checksums on data tables or database encryption. (Note to 59)				
101. Are procedures in place to ensure that any communication with equipment or programs external to the approved system is performed through a Board approved secure interface and is documentation evidencing the approval maintained and made available upon request? (60)				
Note: Documentation may include, but is not limited to, detailed network topology diagrams indicating all interfaces utilized to access Board approved systems by external programs. (Note to 60)				

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Questions	Yes	No	N/A	Comments, W/P Reference
102. Does the written system of internal control delineate the				
methods and procedures utilized for compliance with IT MICS				
#58 - #60? (Note before 58) Verify by examination.				
Written System of Internal Control				
103. Has the licensee's written system of internal control for information technology and information technology for each gaming department and entertainment, if applicable, been reread prior to responding to the following question?				
104. Does the written system of internal control for information technology reflect the actual control procedures in effect for compliance with the MICS, variations from the minimum internal control standards approved pursuant to Regulation 6.090(8), and Regulation 14 associated equipment approvals? [Regulation 6.090(13)]				